Abstract

Provided is a sensor system having a sensor (10) for measuring a gas parameter of a test gas via a measuring element (13), which is accommodated in a housing (12) and projects therefrom at least on the test gas side at a protruding section (131), and a test-gas line (11), through which the test gas flows, having a sensor insertion opening (25) and a receiving element (26) for the housing (12) surrounding the insertion opening (25) and attached to the test-gas line (11). For the purpose of assembly-independent, reproducible alignment of the measuring element (13) with respect to the test-gas flow during assembly of the sensor system, the receiving element (26) bears an internal thread (28), the piercing point of which is oriented with respect to the test-gas flow, and the housing (12) bears an external thread (34), which is able to be screwed into the internal thread (28) and the piercing point of which is oriented with respect to the measuring element (13). The housing (12) is fixed via a predefined tightening torque in the receiving element (26) (Figure 7).